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JP62183439
ELECTROPHORETIC DISPLAY ELEMENT
RICOH CO LTD

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Application No. 61027263, Filed 19860207, Published 19870811

Abstract: PURPOSE: To prevent the flocculation, settlement, etc., of particles and to quickly migrate particles with a low impressed voltage by using composite particles formed by coating the surfaces of pulverized pigment particles with a polar resin contg. an ethylenic copolymer as pulverized electrophoretic particles.

CONSTITUTION: This electrophoretic display element is formed by sealing a liquid prepd. by dispersing the pulverized electrophoretic particles 3 having a certain color tone in a highly insulating dispersion medium 4 dyed to the color tone different from said color tone into the cell formed of two sheets of glass electrodes 1, 1' at least one of which is transparent and spacers 2, 2' disposed on the inside surfaces at the peripheral edges of the two electrodes. The composite particles formed by coating the surfaces of the pulverized pigment particles with the polar resin consisting of the ethylenic copolymer or mixture composed of said copolymer and PE are used for the pulverized electrophoretic particles 3. The distinct and stable electrostatic chargeability and the specific gravity approximate to the specific gravity of the dispersion medium are thereby provided to the dispersion particles by which the flocculation and settlement of the particles, the unavoidable sticking thereof to the electrodes, etc. are prevented and the particles are quickly migrated with the low impressed voltage.

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Int'l Class: G02F00119;

MicroPatent Reference Number: 000112614

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